

(19) World Intellectual Property
Organization
International Bureau



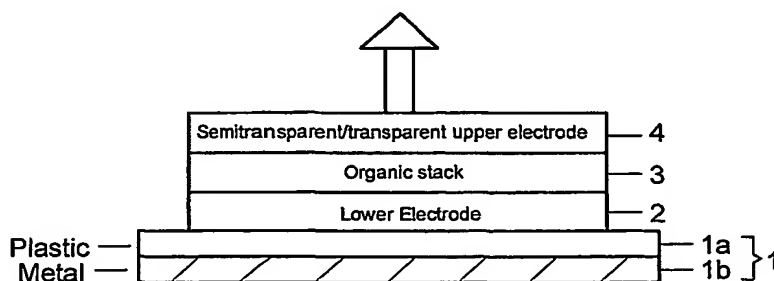
(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/064993 A1

- (51) International Patent Classification⁷: **H05B 33/00**
- (21) International Application Number:
PCT/SG2003/000296
- (22) International Filing Date:
30 December 2003 (30.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLEXIBLE ELECTROLUMINESCENT DEVICES



(57) Abstract: An organic light emitting diode (OLED) formed on an opaque flexible substrate is disclosed. The opaque flexible substrate is composed of one of the following: (i) a plastic layer laminated to or coated with a metal layer, (ii) a metal layer sandwiched between two plastic layers, or (iii) a metal foil. When the OLED is formed on a metal surface of the flexible substrate, the metal surface may be coated with an isolation layer. The isolation layer may be a spin-coated polymer layer or a dielectric layer. The

metal in the flexible substrate serves as a barrier to minimize the permeation of oxygen and moisture to the OLED. In addition, the OLED is provided with a transparent or semi-transparent upper electrode so that light can emit through the upper electrode.